

# Report from the chair

H. Abramowicz  
Tel Aviv University

## Seeds for ECFA

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### **20 December 1962 – Summoning the Founding Fathers**

By 1962, with CERN's long-term accelerator construction plans still not fixed, some member states were growing impatient to pursue their own projects. A meeting was called for January 1963, where Europe's top high-energy physicists would thresh out the whole question of coordinating national initiatives with those carried out at CERN.

Reaching agreement between so many countries was never going to be easy, so Director-General Weisskopf suggested a pre-meeting of even more important people – CERN's “Founding Fathers”. He felt an “informal exchange of view among people who are beyond the pure scientific level” - people committed to CERN's aims and with experience in governmental matters – would help find “the best way in which to prepare a sympathetic response for the various European countries”. Discussions began over dinner at Le Béarn in Geneva on 19 December, and continued the next day. You can read the minutes of the meeting here (<https://cds.cern.ch/record/20632?ln=en>).

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# ECFA European Committee for Future Accelerators

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## ACCELERATOR MEETING

Geneva - 20 December, 1962

### Chairman:

Prof. V.F. Weisskopf (

Dr. J.B. Adams

Prof. E. Amaldi

Mr. J.H. Bannier

Prof. W. Gentner

Prof. C. Möller

Prof. F. Perrin

Prof. C.F. Powell

Mr. F. de Rose

### CERN Officials:

Prof. G. Bernardini

Mr. S.A. ff Dakin

Dr. P. Germain

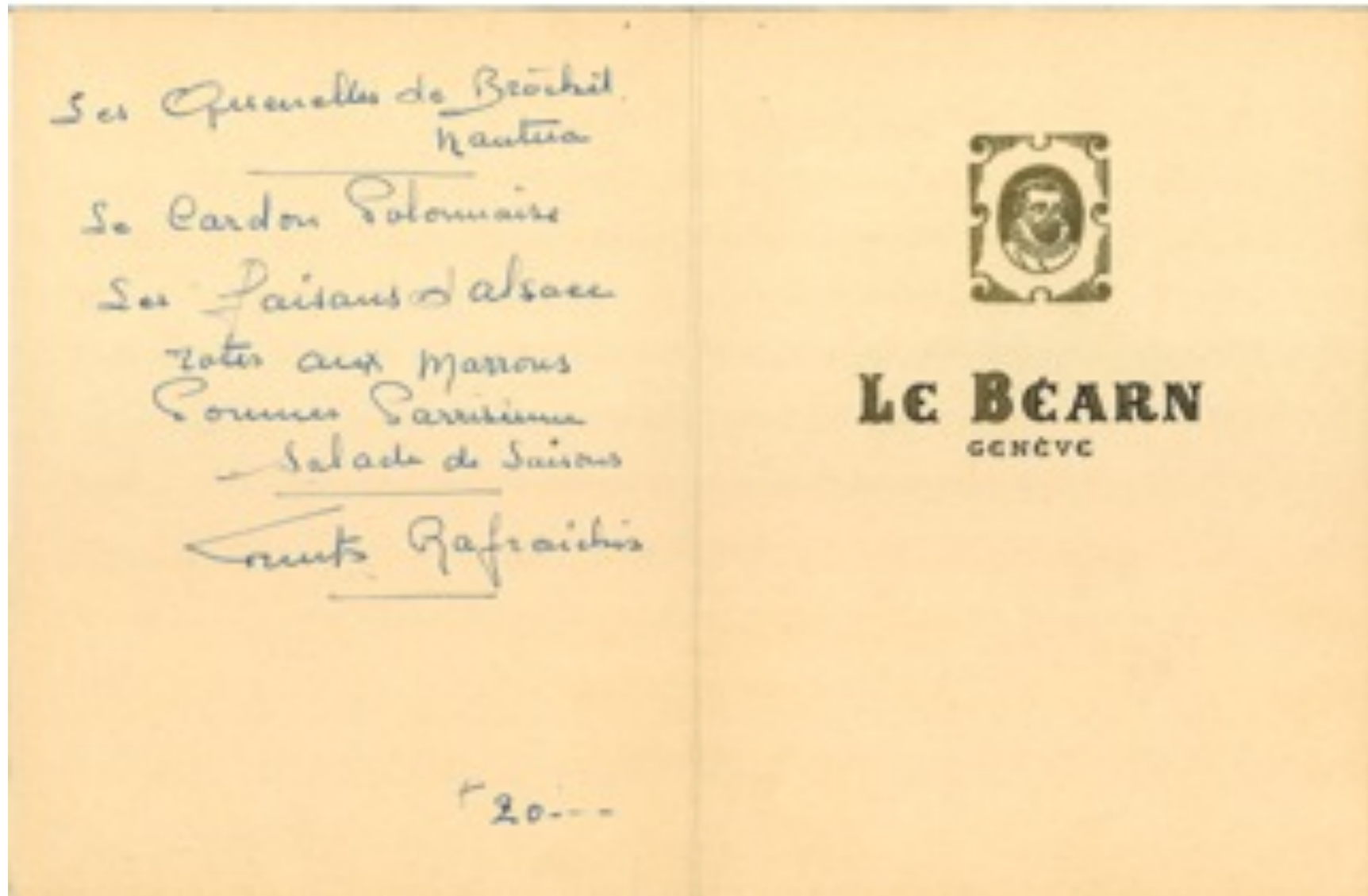
Dr. M.G.N. Hine

Dr. K. Johnsen

Prof. G. Puppi

# ECFA European Committee for Future Accelerators

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## REPORT OF THE WORKING PARTY ON THE EUROPEAN HIGH ENERGY ACCELERATOR PROGRAMME

FA/WP/23/Rev. 3  
12th June 1963

In this situation the Director-General of CERN, Professor V. F. Weisskopf, and the Chairman of the Scientific Policy Committee, Professor C. F. Powell, convened a meeting of leading high energy physicists from CERN Member States and from CERN itself on January 17-18, 1963. This meeting which constituted itself into the European Committee on Future Accelerators (ECFA), appointed a small working party under the chairmanship of Professor E. Amaldi to prepare as quickly as possible a comprehensive report on the desirable programme of large accelerator construction for Europe, and the practicability of carrying out such a programme in the light of its financial and manpower implications. It was intended that this report would be passed on to the Scientific Policy Committee and would form the basis of recommendations from this committee to CERN Council.

### EUROPEAN COMMITTEE FOR FUTURE ACCELERATORS

First Plenary Meeting

Geneva - 7 March, 1966

## Chairs of ECFA

### Terms of Office

01.01.1963 - 31.12.1969	Eduardo AMALDI	Italy
01.01.1970 - 31.12.1970	T.G. PICKAVANCE	United Kingdom
01.01.1971 - 31.12.1973	Giorgio SALVINI	Italy
01.01.1974 - 31.12.1974	Wolfgang PAUL	Germany
01.01.1975 - 31.12.1977	Guy VON DARDEL	Sweden
01.01.1978 - 31.12.1980	M. VIVARGENT	France
01.01.1981 - 31.12.1983	John H. MULVEY	United Kingdom
01.01.1984 - 31.12.1987	Jean SACTON	Belgium
01.01.1988 - 30.05.1989	Walter HOOGLAND	Netherlands
01.06.1989 - 30.09.1992	Jean-Eudes AUGUSTIN	France
01.10.1992 - 31.12.1995	Günter FLUGGE	Germany
01.01.1996 - 31.12.1998	Enrique FERNANDEZ	Spain
01.01.1999 - 30.06.2002	Lorenzo FOÀ	Italy
01.07.2002 - 30.06.2005	Brian FOSTER	United Kingdom
01.07.2005 - 31.12.2006	Torsten ÅKESSON	Sweden
01.01.2007 - 31.07.2009	Karlheinz MEIER	Germany
01.08.2009 - 31.12.2011	Tatsuya NAKADA	Switzerland
01.01.2012 - 31.12.2014	Manfred KRAMMER	Austria
01.01.2015 -	Halina ABRAMOWICZ	Israel



## Geographical enlargement

Member States: Austria, Belgium, Bulgaria, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Israel, Italy, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Spain, Sweden, Switzerland, United Kingdom

Associate Member States in the pre-stage to Membership: Cyprus, Serbia

Associate Member States: India, Pakistan, Turkey, Ukraine

Observer status: European Union, Japan, JINR, Russian Federation, UNESCO, USA

Cooperation agreement: Qatar, Latvia

ECFA has the freedom of inviting members and/or observers !!!

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Guidelines on the work of ECFA have been worked out in 1976, and amended in 1981, 1997 and 2008.

ECFA terms of reference contained in ECFA/81/52/Rev.4 from 18 July 2008

## 4. PARTICIPATING COUNTRIES

Traditionally, physicists from the countries which were Members of CERN in 1966 participate in ECFA. CERN is also considered as a "country". Plenary ECFA may on request extend participation to physicists from other countries. Any participating country is free to leave ECFA on six months' notice given at a Plenary ECFA meeting. Admission of a new participating country is decided by Plenary ECFA.

- Initiated a discussion with Charlotte Lindberg-Warakaulle (PR)
- Charlotte organized a brain-storming session
- Invited Tatsuya Nakada and Manfred Krammer

Meeting took place September 12



# ECFA European Committee for Future Accelerators

1. ECFA remains an organization representing the European particle physics community (including Israel and Turkey) at CERN and globally.
2. ECFA will extend invitations of membership in ECFA to all European countries connected to CERN. (The voting rights will depend on the status at CERN)
3. ECFA will invite observers from non-European countries connected to CERN (observers, associate members or full members) to PECFA meetings.
4. On request, RECFA may decide to invite one observer from non-European countries to the plenary session of country visits.
5. The country visits, on a rotational basis, will be restricted to European countries (as defined in 1).
6. On invitation by a non-European country connected to CERN, RECFA may decide to visit that country.

Timeline to complete by PECFA November 2017

- Endorsement by RECFA now
- Presentation to PECFA now
- Collect comments
- Prepare final version, RECFA meeting in Helsinki
- Endorsement PECFA November 2017

In the mean time next natural ECFA member - Cyprus

- Sent invitation to Ministry of Education on Oct 25, 2016
- Received enquiry about advantages and costs Nov 17
- Waiting for final verdict

Next in line Ukraine - seeking endorsement

## ICFA matters - Linear Collider

2002: ICFA created the International Linear Collider Steering Committee (ILCSC) to promote the construction of an electron-positron linear collider through world-wide Collaboration

2003: ICFA created the International Technology Recommendation Panel (ITRP). Two remaining LC design options

2005 : ICFA set up Global Design Effort (GDE) to produce an ILC design and its cost.

June 2013: Technical Design Report completed, including detectors, with costs

2013: ILCSC ended; Linear Collider Board (LCB) formed by ICFA, to oversee the Linear Collider Collaboration (LCC) - mandates extended till end 2016.

Note: structure includes ILC and CLIC

## LC current organization

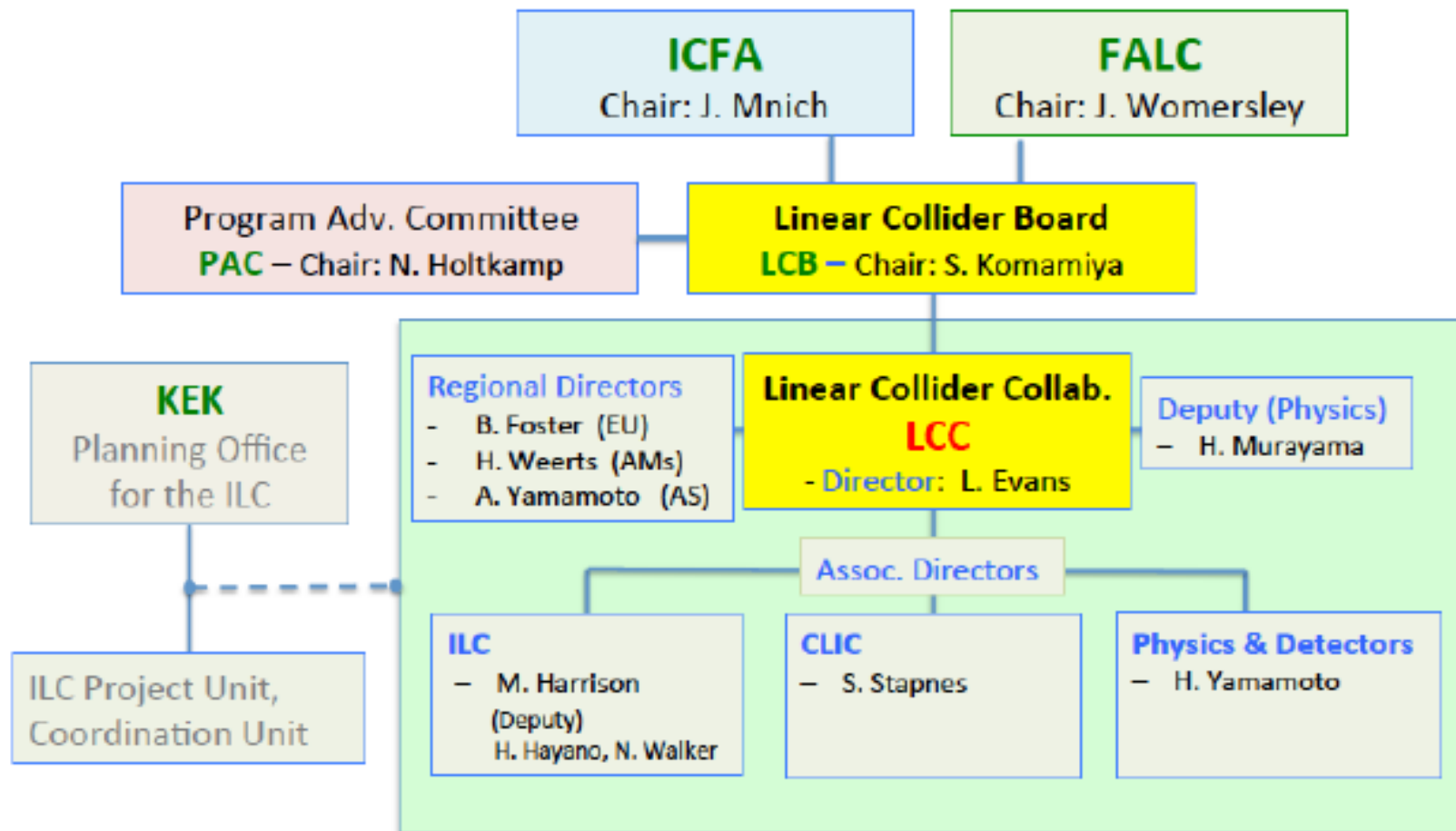


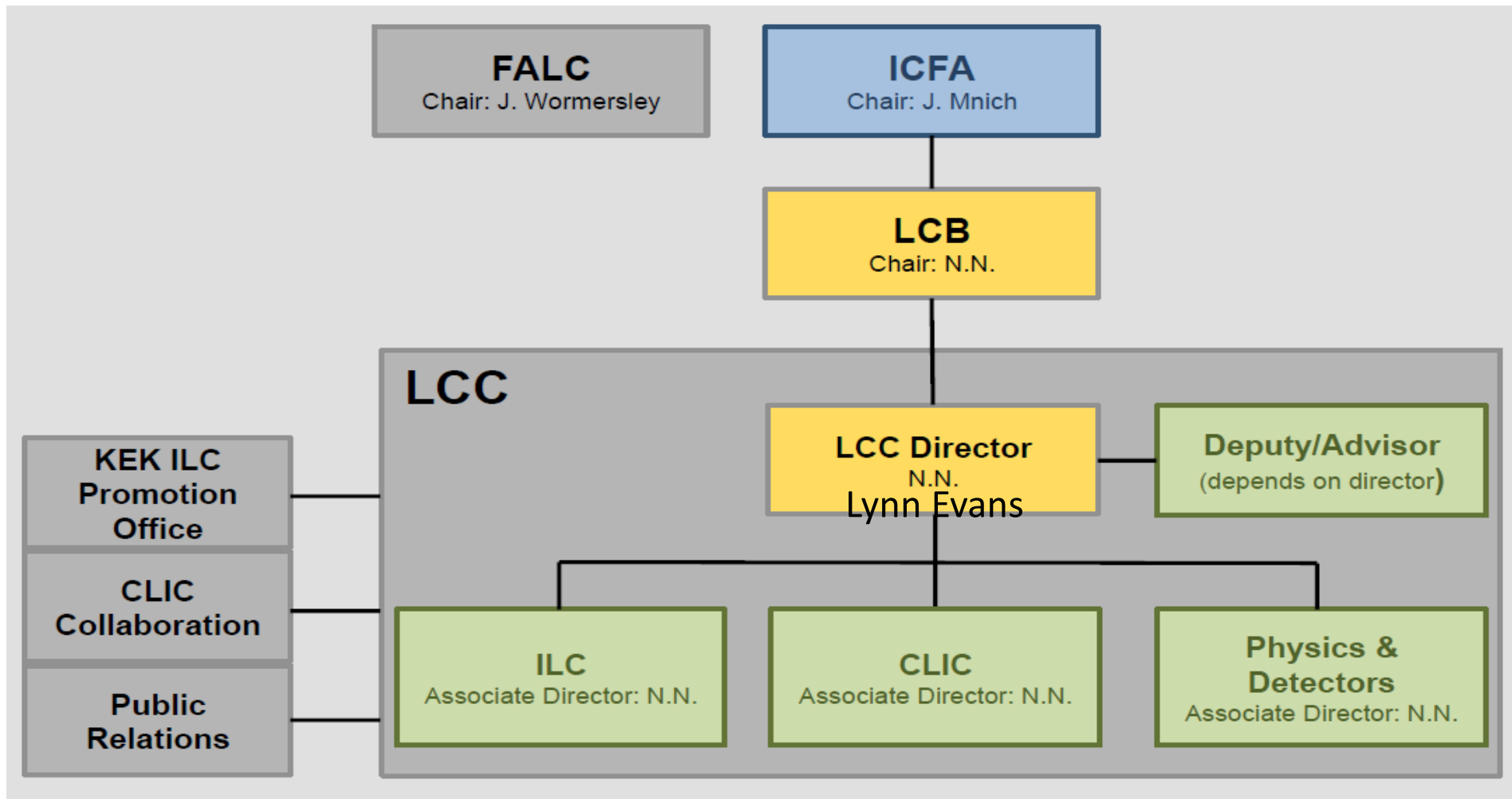
Figure 1. Structure of the Linear Collider Collaboration

## LC current organization reviewed

At the February 2016 meeting, ICFA decided to continue the LC organization beyond 2016

- with updated structure and mandate
  - as little changes as necessary
  - keep names of LCB and LCC
- making it “leaner”
- main purpose over the next years to
  - have oversight of worldwide R&D efforts
  - keep the successful close collaboration and synergy between ILC and CLIC
  - promote LC in political circles and general public

## LC new organization (to be reviewed in <3 years)





# ECFA European Committee for Future Accelerators

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## Membership of the Linear Collider Board (August 2016)

### Chair

Sachio Komamiya  
(Secretary: Pushpalatha Bhat)

### Americas

Jonathan Bagger  
The Fermilab Director (currently Nigel Lockyer)  
David MacFarlane  
Lia Merminga  
Hugh Montgomery

### Asia

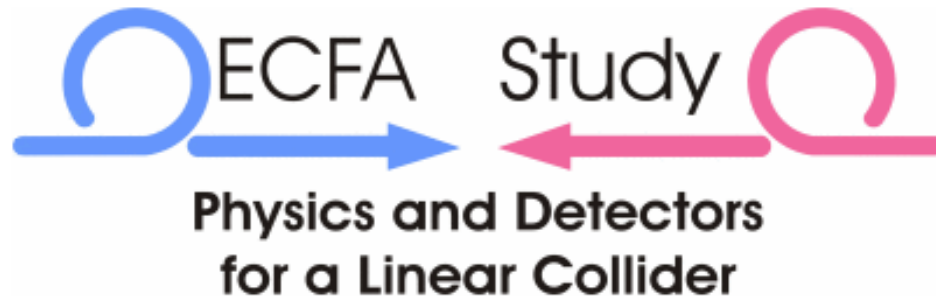
Jie Gao  
Rohini Godbole  
Sunkee Kim  
Masanori Yamauchi  
Yifang Wang

### Europe

The CERN Director-General (currently Fabiola Gianotti)  
The DESY Director of Particle Physics (currently Joachim Mnich)  
Francois Le Diberder  
The JINR Director (currently Victor Matveev)  
Lenny Rivkin

Proposal for endorsement – keep same representation from Europe

ECFA Study of Physics and Detectors for a Linear collider



In the same spirit, for endorsement proposal to extend the term of  
Juan Fuster as chair  
by another 3 years



## Joint ECFA-EPS Session in Venice

Session 14:30 to 18:00

### Particle Physics: Extending our Vision and Reach

Possible topics

- **From particle physics instruments to medical applications**  
Accelerators, hadron-therapy, detector developments, etc.
- **From WWW to data science**  
Computing, grid, cloud, big data etc.
- **Synergies with materials science**  
Accelerators, materials challenges, instrumentation etc.
- **Particle physics and planet earth**  
CLOUD experiment at CERN, muon tomography, underground experiments? etc.
- **Particle physics and education**  
Impact of CERN experiments to education

## ECFA Detector R&D Panel

New mandate expanded beyond LC activities

New structure

ECFA/16/298, <http://cds.cern.ch/record/2211641>

- Panel will have an advisory role with 4 to 5 experts
- Panel will set up review committees on demand
- Panel will constitute a contact point for new activities/groups

## Detector R&D Panel

- |                   |                               |
|-------------------|-------------------------------|
| Astroparticle     | - Els Koffemann (NL)          |
| Calorimetry       | - Laurent Serin (FR)          |
| Gaseous Detectors | - Silvia Dalla Torre (IT)     |
| Silicon           | - Phil Allport (UK)           |
| Electronics/DAQ   | - Arno Straessner (DE)        |
| General           | - Lucie Linssen (CERN)        |
| Ex-officio        | - Ariella Cattai (ICFA, CERN) |

Chair to be selected by the panel

- Endorsement by PECFA requested
- ApPEC already endorsed the panel



## ECFA Meetings 2017

### Plenary ECFA

- Venice, 5-12 July 2017, Special ECFA/EPS HEPP Session
- CERN, 16-17 November 2017, 101th PECFA meeting

### Restricted ECFA - country visits

- Bulgaria, Sofia, 24-25 March 2017 (?)
- Belgium, Brussels, 21-22 April 2017
- Finland, Helsinki, 19-20 May 2017
- Cyprus/Turkey - Fall 2017 under discussion

## 2017 - elections of new ECFA chair

- Call for nominations now - letter will follow
- Election in Helsinki, 19-20 May 2017
- Seek endorsement 16-17 November 2017, 101th PECFA meeting at CERN





